

20040312.ba v03_n622.bam.20040312

>From ???@??? Fri Mar 12 13:19:02 2004 +0000
Message-Id: <200403121918.i2CJIlq8006901@sco.theporch.com>
Date: Fri, 12 Mar 2004 13:18:16 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3622

BOATANCHORS Digest 3622

Topics covered in this issue include:

- 1) Crystal tutorial redux: Quality tells
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 2) Re: Crystal tutorial redux: Quality tells
by "Ken Hickman" <n5cm@rtconline.com>
- 3) Re: Wand to Buy: National SW-3 Model III
by "RJ Mattson" <rjmattson@hvi.net>
- 4) Heathkit SB101 Manual
by "Bob Kemp" <b Kemp@bobkemp.com>
- 5) Re: Riley Hollingsworth will be our guest speaker
by "Edward J White" <wa3bzt@verizon.net>
- 6) speaker re-coning
by "w5sum" <w5sum@glowbugs.com>
- 7) Re: speaker re-coning
by brian.k.harris@philips.com
- 8) Re: speaker re-coning
by "RJ Mattson" <rjmattson@hvi.net>
- 9) Are Heathkit parts still available?
by "John Gibson" <gibsonj@mindspring.com>
- 10) Re: Are Heathkit parts still available?
by Kim Herron <kherron@voyager.net>
- 11) Re: Are Heathkit parts still available?
by "Arden Allen" <gumbear@pacbell.net>
- 12) WIERD VACUUM TUBE BEHAVIOR
by JOHN.SEHRING@ecunet.org
- 13) Fwd: Equipment from the estate of W9QLF (fwd)
by Bob Roehrig <broehrig@aurora.edu>
- 14) Re: Are Heathkit parts still available?
by Tom Norris <r390a@bellsouth.net>
- 15) Re: WIERD VACUUM TUBE BEHAVIOR
by "Arden Allen" <gumbear@pacbell.net>
- 16) BC-610 Registry
by "Mikhael" <mikhael@brown.org>
- 17) Re: Crystal tutorial
by wb3fau@att.net
- 18) National NC-100 variant RCP

- by wb3fau@att.net
- 19) Re: National NC-100 variant RCP
by w8au@sssnet.com
- 20) Re: National NC-100 variant RCP
by Al Klase <skywaves@webex.net>
- 21) Re: National NC-100 variant RCP
by "Benjamin D. Hall" <kd5byb@earthlink.net>

Message-Id: <5.1.0.14.0.20040310105842.0298f9c8@vuse.vanderbilt.edu>

Date: Wed, 10 Mar 2004 11:14:10 -0600

To: Old Tube Radios <boatanchors@theporch.com>

From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>

Subject: Crystal tutorial redux: Quality tells

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I'd like to thank my parents, my dog, my agent, the academy and (incidentally) all the fine ba folk who came to my aid regarding the Case of the Recalcitrant Crystal.

Problem summary: HP 8601a sweep generator, local 200 MHz oscillator quits after a few minutes due to heat. Transistor, ceramic caps replaced, still no cigar. A gentle waft of hairdryer over the board is enough to kill it.

The winner: Arden Allen, who got me thinking in different directions. Tried increasing the feedback (replaced 6.8 pf coupler with 12 pf), no seegar. "You also might try messing with the choke." This circuit has a 0.1 uH choke across the crystal, see. Dunno what it's doing there. That might seem like nothing but a piece of wire, but at 200 MHz it's about 125 ohms reactive. Removed the choke, oscillator amplitude goes WAY up and swamps the mixer. Now it works, but who needs a 200 MHz fixed-frequency sweeper? With astounding foresight I had gotten a replacement for the choke, stuck it in. Viola (as they say), big fat Corona Corona. Works FB, unperturbed by all kinds of heat. 807 time.

So I naively expect that while the choke itself was not influenced by the heat, it was marginal in some way, making the crystal more susceptible.

The original choke was sourced in house by HP (or that's what the book says). The replacement? Miller, of course. Quality tells.

Incidentally, I would add a shameless commercial plug for Mouser. Their catalog is broad and on the web, the stock is amazingly complete, if you pay it they will ship (no minimum) and if I order by the web I get things in two days or so. Great outfit. I remember when their catalog was about 30 pages...

A. B. Bonds

Message-ID: <000c01c406ca\$29b1dfe0\$414e9844@de114100>
From: "Ken Hickman" <n5cm@rtconline.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Crystal tutorial redux: Quality tells
Date: Wed, 10 Mar 2004 12:04:42 -0600
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi A B & Gang,

I had a heat problem many many years ago in my Central Electronics 100V.
On 40 meters, after about 30 minutes, the output fell to almost nothing....
Usual trouble shooting failed to identify culprit....So, I got a can of,
"Circuit Cooler", and when the output dropped, I sprayed the suspects -
Wham!, the output shot back up when I sprayed a little button ceramic
in the vfo circuitry....Don't remember exactly where it was but the value
was 4 pf....
Couldn't find that value locally so I got in touch with Wes Schum, who
designed the Central Electronics equipments, via phone patch with a ham
in Chicago....Wes said if he had one on hand he would send it to me....
He did and the rest is history....No further trouble....(Until I put the old
girl to rest after she "gave up the ghost")....
Take care,

Ken....N5CM....

Message-ID: <009f01c406f8\$6f66f150\$625aba8c@Laptop>
From: "RJ Mattson" <rjmattson@hvi.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Wand to Buy: National SW-3 Model III
Date: Wed, 10 Mar 2004 18:35:54 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Scott,
My DC battery model with tubes 236-236-237 also has a B- switch on the front
panel.
There is also a headphone jack on the front, but I am not sure if it is

factory done?

Schematic : <http://www.hvinet.com/rjmattson/dcsbw3>

What a great CW receiver for 80/40m.

Hope you find your model III. Will you team it up with your Micamold xmtr?

bob...w2ami

www.qrz.com/callsign/w2ami

----- Original Message -----

From: "Freeberg, Scott (STP)" <Scott.Freeberg@guidant.com>

To: "Old Tube Radios" <boatanchors@theporch.com>

Sent: Wednesday, March 10, 2004 9:31 AM

Subject: Wand to Buy: National SW-3 Model III

Want to buy a National SW-3 Model III. This was the last version made and has a B+ switch and a headphone jack on the front panel. Thanks.

73, Scott WA9WFA

<http://www.qsl.net/wa9wfa>

Message-ID: <000501c406fe\$506877a0\$6501a8c0@radio>

From: "Bob Kemp" <bkemp@bobkemp.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Heathkit SB101 Manual

Date: Wed, 10 Mar 2004 18:17:59 -0600

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Anyone have an original SB101 manual they'd sell?

Bob

Message-ID: <00be01c40713\$eac0e660\$6401a8c0@wa3bzt>

From: "Edward J White" <wa3bzt@verizon.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Riley Hollingsworth will be our guest speaker

Date: Wed, 10 Mar 2004 21:52:38 -0500

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Just a reminder, If you have questions we have the person

Ed

WA3BZT

>

> Hi Gang,

>

> Riley Hollingsworth will be our guest speaker at the First State
Amateur

> Radio Club meeting this month - March 25 at (8:PM) in Newark Delaware,
Get

> the word out to everybody, we all have issues we like to hear and talk
about

> like BPL and anything else the FCC has coming down for Amateur Radio. We
> encourage other clubs to attend.

>

> Directions follow:

>

> The First State Amateur Radio Club meets the fourth Thursday of every
month

> at

> 8 PM in the Conectiv corporate data center, Wakefield Drive, Newark,
> Delaware.

> A 15-minute informal fellowship period (7:45-8:00) precedes the meeting

> sometimes. To get to the data center from I-95, take Route 273 south to
> the

> University Plaza shopping center. Turn right onto Chapman Road. After
0.4

> miles, turn left onto Wakefield Dr. After about 1/4 mile, turn left,
before

> the three flag poles, into the data center building parking lot. The

> building

> you want is facing you after you turn left at the poles. The lot is

> semicircular with a man-made pond in the center. Enter the building and
ask

> the guard for directions to the radio club meeting. In the months of

> November

> and December, the meetings are on the third Thursday to avoid a conflict

> with

> the holidays.

>

>

> Spread the work.

>

> Smoke rings, Scotty W3URR

>

> Ed White WA3BZT

>

From: "w5sum" <w5sum@glowbugs.com>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: speaker re-coning
Date: Thu, 11 Mar 2004 09:21:13 -0500
Message-Id: <20040311142113.M5822@glowbugs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1

can anyone direct me to a place where I can get my SX-28 Speaker Re-coned?

thanks in advance

Ronnie

W5 Sum Ugly Modulator

The "AM" voice of Shreveport, Louisiana USA
formerly WN5AIA and WB5AIA
I got my Extra Class the old fashioned way... I earned it!

From: brian.k.harris@philips.com
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: speaker re-coning
MIME-Version: 1.0
Message-ID: <0F22C49D34.9F9F4968-
ON88256E54.004FD934-86256E54.0050A6D8@diamond.philips.com>
Date: Thu, 11 Mar 2004 08:39:04 -0600
Content-Type: text/plain; charset="us-ascii"

Ronnie,

I had two speakers redone at Freeman-Tuell in Dallas to tune of about \$45 each (12 and 15"). They are at 7911 Ferguson Drive and their phone is 214-324-1132.

Brian WA5UEK

"w5sum" <w5sum@glowbugs.com>
Sent by:

owner-boatanchors@theporch.com
2004-03-11 08:21 AM
Please respond to w5sum

To: Old Tube Radios <boatanchors@theporch.com>
cc: (bcc: Brian K Harris/SVL/SC/PHILIPS)
Subject: speaker re-coning
Classification:

can anyone direct me to a place where I can get my SX-28 Speaker Re-coned?

thanks in advance

Ronnie

W5 Sum Ugly Modulator

The "AM" voice of Shreveport, Louisiana USA
formerly WN5AIA and WB5AIA
I got my Extra Class the old fashioned way... I earned it!

Message-ID: <007301c4077a\$aa65a850\$09220f9d@Laptop>
From: "RJ Mattson" <rjmattson@hvi.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Eldad" <Eldad@HVC.RR.com>
Subject: Re: speaker re-coning
Date: Thu, 11 Mar 2004 10:08:08 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I believe Eldad, K2AB does speaker re-coning.
I copied him, but send Eldad an e-mail if you need more info.
bob...w2ami

----- Original Message -----
From: "w5sum" <w5sum@glowbugs.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Thursday, March 11, 2004 9:21 AM
Subject: speaker re-coning

> can anyone direct me to a place where I can get my SX-28 Speaker Re-coned?
>
> thanks in advance
>
> Ronnie
>
> W5 Sum Ugly Modulator
>
> The "AM" voice of Shreveport, Louisiana USA
> formerly WN5AIA and WB5AIA
> I got my Extra Class the old fashioned way... I earned it!
>
>

Date: Thu, 11 Mar 2004 08:19:50 -0800
Subject: Are Heathkit parts still available?
From: "John Gibson" <gibsonj@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Message-Id: <E1B1Svm-00070y-00@blount.mail.mindspring.net>

When Heathkit stopped selling kits, there must have been a warehouse full of their parts disposed of. Does anyone know if that buyer sells Heathkit parts still?

Message-Id: <5.2.0.9.2.20040311123324.00a02c80@mail.voyager.net>
Date: Thu, 11 Mar 2004 12:44:02 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: Kim Herron <kherron@voyager.net>
Subject: Re: Are Heathkit parts still available?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi John,

> When Heathkit stopped selling kits, there must have been a warehouse full
> of their parts disposed of. Does anyone know if that buyer sells Heathkit
> parts still?

Those parts were sold by the shipping pallet to people all over the United States.

Some of them know what they have and some have no idea. There is one fellow in Toledo Ohio, that has a HUGE warehouse full of stuff (parts and whole kits) that is

still shrink-wrapped just as it was received from Heath and it's been sitting there for over 15 years. There is a fellow in Benton Harbor that has stuff, but he won't give out his phone number and if you DO manage to get hold of him, he won't talk to you about the stuff and hangs up. I bought some of the stuff from another fellow here in Grand Rapids MI and he's still got a bunch of stuff that he can't get rid of. You've got to understand that when this stuff was DUMPED by Zenith, there was no rhyme or reason to the sorting of stuff. These pallets had Gaylord boxes attached and stuff was dumped in till it was full and then they grabbed another one. When this stuff was sold you bid on a bunch of pallets with no idea what was in it. You got what you got. That's why the fellow in GR here got a whole skid of microwave oven wiring harnesses and nothing else in it. That made up for the skid of NEW EIMAC 3-500Z tubes in one, and rf decks for SB-1000's in another. Most of those pallets went out the door for around \$40.00 to \$50.00 a skid, so I was told from several sources, so I suspect that it's true. Remember, Zenith did the same thing to Central Electronics. Bought the company, took what they wanted and scrapped the rest.

Thanks!!

Kim Herron W8ZV
1-616-677-3706

Message-ID: <004101c407a8\$701b8b50\$9fe47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Are Heathkit parts still available?
Date: Thu, 11 Mar 2004 12:35:43 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Remember, Zenith did the same thing
to Central Electronics. Bought the company, took what they wanted and
scrapped the rest.

And now our jobs are being scrapped by the pallet load!

Arden Allen
KB6NAX

Date: Thu, 11 Mar 2004 15:41:13 -0500 (EST)
Message-Id: <200403112041.i2BKfDFg483116@wine.ecunet.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WIERD VACUUM TUBE BEHAVIOR
From: JOHN.SEHRING@ecunet.org

To: boatanchors@theporch.com

> The ferrite beads don't influence crossover distortion, they *cause*
> crossover distortion. Their impedance is maximum at zero signal
> (current) and decreases symmetrically as the signal swings around zero.
> Very much the same distortion as a push-pull amplifier with a bit too
> much bias.

How is the bead's Z at a max at zero current? Are we talking core
saturation here?

> One thing that differentiates RF parasitics from lower frequency
> parasitics is they are highly susceptible to diddling, the movement of a
> wire, addition of finger capacitance, introduction of low values of
> resistance, etc. One should not confuse RF parasitics with the
> supersonic oscillations that can occur when audio amps are not properly
> feedback compensated.

I'm not clear on the diff between RF parasitics & "lower" frequency
parasitics.

> Arden Allen
> KB6NAX

-John Sehring (Thu, Mar 11, 2004, 11:06 am) Dell Rapids SD - UCC - WB0EQ
"Live long and prosper." -John 10.10b (adapted)

Date: Thu, 11 Mar 2004 15:42:49 -0600 (CST)
From: Bob Roehrig <broehrig@aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fwd: Equipment from the estate of W9QLF (fwd)
Message-ID: <Pine.OSF.4.58.0403111542020.67535@mail.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

FYI - looks like a lot of neat stuff available.

=====

Equipment from the estate of W9QLF

There is a lot of VERY nice old pieces in this estate. Steve Wenger, W9QLF was very active with AM on HF and had some of the very best vintage equipment you could buy. Most items have instruction manuals. All of it is located in Jacksonville, IL 62650

If interested please contact Bob Engle, K9QLL at <mailto:ww6bwf@yahoo.com>ww6bwf@yahoo.com for further information.

National NC-183D with matching speaker

Johnson Viking kilowatt match Box

Johnson Viking II and VFO

Johnson Viking Ranger

Johnson Viking Valiantexceptional!!

Heath DX-60A, Heath VFO

Multi-Elmac AF-67

RME DB-20 preamp 3 of these

Knight Kit T-50.....ruff

Central Electronics MM-2 Monitor Scope 2 of these

Central Electronics Side Band Slicer Model A

Central Electronics 20-a exciter

Lakeshore Band Hopper VFO

National HRO-5 with powersupply and speaker and coilset ABCDEF....very few of these left!!!!

HRO 50 coilset BBCDE

OS8U mil scope

Hammerlund SP-600

Gates BC-1J 1kw broadcast transmitter(appx 2000lbs!)

W9QLF(k9ql1) Linear amp ..Dual 833As...Big One!

Icom IC2-AT HT with accessories

RCA MI 8173 transmitter 350Watts AM HF

TCS-13 Mil RX

Kenwood TS180 with matching speaker(inst and svc manuals)M-2 Mike

Collins R-388 receiver with bud cabinet(19"rackmount)

Eico 710 grid dip meter w/coils

Astatic D-104.(May have heil element)

MXI V67 with mount and windscreen sim to heil retro mike fantastic sound!!

Electrovoice 630 mike

Shure Broadcast mike (may have heil element)

EICO 720 transmitter

SCOPES RCA,Heath etc... ask!

Hewlett Packard 712B power supply--Variable High voltage Supply B+ and Bias minus supplies approx 500/300.

Regency HR-2B

Big Iron! Power transformers, Modulation transformers, oil filled capacitors,etc.

Mime-Version: 1.0

Message-Id: <p06020427bc76950d2c07@[10.0.1.2]>

Date: Thu, 11 Mar 2004 16:16:09 -0600

To: Old Tube Radios <boatanchors@theporch.com>

From: Tom Norris <r390a@bellsouth.net>

Subject: Re: Are Heathkit parts still available?

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

> Those parts were sold by the shipping pallet to people all
>over the United States.

>Some of them know what they have and some have no idea. There is

>one fellow in Toledo Ohio,
>that has a HUGE warehouse full of stuff (parts and whole kits) that
>is still shrink-wrapped just as it was received from Heath and it's
>been sitting there for over 15 years. There is a fellow in Benton
>Harbor that has stuff, but he won't give out his phone number and if
>you DO manage to get hold of him, he won't talk to you about the
>stuff and hangs up. I bought some of the stuff from another fellow
>here in Grand

Sa basically most of it will end up like many ham estates and be
tossed when the person
dies, in the mistaken belief that they can "take it with them" when
they go.... sigh

Tom

Message-ID: <000901c407c1\$1fa86a30\$fae47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: WIERD VACUUM TUBE BEHAVIOR
Date: Thu, 11 Mar 2004 15:32:26 -0800
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Hi John;

> How is the bead's Z at a max at zero current? Are we talking core
> saturation here?

What is the resistance of a ten megohm resistor at zero current?

> I'm not clear on the diff between RF parasitics & "lower" frequency
> parasitics.

Any part of a circuit that hosts an oscillation is one plagued by a
"parasitic." In audio and other amplifiers that utilize feedback, if phase
shifts around the feedback loop are not properly controlled to just beyond
gain crossover, parasitics can exist within the bandwidth or somewhat beyond
the bandwidth of the circuit - don't confuse bandwidth (usually the -3DB
point) with gain crossover (the frequency where gain drops to <1). RF
parasitics exist in circuits (including audio) where stray circuit
reactances form oscillatory networks which with sufficient gain available
will host parasitic oscillations. Both tube and transistor circuits can
host VHF parasitics where care is not taken to avoid creating efficient
stray oscillatory circuits. Care in avoiding certain capacitive coupling,

inductive coupling, combinations of inductance and/or capacitance phase shift networks, etc., AND controlling the gain crossover point (if possible) to below the natural frequencies of said oscillatory networks. Mastering the art of designing circuits free of parasitics enters the world of black magic, so I've been told. I prefer to think it's simply the difference between competent, knowledge based engineering and tinkerer/hacker based "engineering" (do I need to mention audiophooles?). In addition, there are the problems with non-linear behavior of devices, such as the *dynatron* effect I've been babbling about, that makes things even more interesting. So much for what I know about the subject.

Arden Allen
KB6NAX

Content-Type: text/plain; charset=iso-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
From: "Mikhael" <mikhael@brown.org>
Subject: BC-610 Registry
Date: Fri, 12 Mar 2004 07:01:55 -0800 (PST)
Message-Id: <20040312070156.15887.h011.c000.wm@mail.brown.org.criticalpath.net>

Here is the link to the BC-610 registry. Please email any additions or corrections to me or click on the list keeper button on the registry.

http://syzen.com/milradio/BC610_Registry.aspx

Thanks and 73's

Mike

From: wb3fau@att.net
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "A. B. Bonds" <ab@vuse.vanderbilt.edu>,
Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Crystal tutorial
Date: Fri, 12 Mar 2004 17:59:04 +0000
Message-Id: <031220041759.13589.2fdd@att.net>

Yes AB, lets try this- is it a plug in xtal ? When it goes dead, stick it in the freezer for a few minutes. If not give it liberal dose of freeze mist. i have had them not work and start up when warm. Russ.
> No, I am not offering one, I need one. I got a nice HP sweep generator (HP

> 8601a), but it dies after about ten minutes. I have tracked the problem to
> the 200 MHz local oscillator (which beats with the VT0). After replacing
> most of the components, I find that the problem resides with the crystal,
> which has gotten very temperature sensitive. When it warms up about 10-15
> degs, the oscillator shuts down.
>
> I have found a number of crystal vendors that will go up to 200 MHz (on
> overtones) but they need a spec that differentiates between a "series"
> crystal and one with a capacitive load. I can't quite suss that out with
> this puppy.
>
> The circuit looks like this (here is where it gets boring, sorry): An NPN
> transistor (2N5179) has the base grounded. There are 1k loads on both
> emitter and collector (collector load then to decoupled B+). The collector
> also has a 0.001 uF cap going to (1) a tuning coil (to ground) and (2) a
> 6.8 pf ceramic.
> The emitter also has the crystal, shunted by a 0.1 uH choke, going to (1)
> the other end of the 6.8 pf cap mentioned above, (2) a 27 pF ceramic cap to
> ground and (3) a 0.001 uF cap, which is the oscillator output to the next
> stage.
>
> I BELIEVE that the 27 pf constitutes a capacitive load, although it is only
> on one side of the crystal. The 6.8 pf links the crystal to the collector
> for the required feedback. So I don't THINK it is series.
>
> ??
>
> A. B. Bonds
>

From: wb3fau@att.net
To: Old Tube Radios <boatanchors@theporch.com>
Subject: National NC-100 variant RCP
Date: Fri, 12 Mar 2004 18:10:06 +0000
Message-Id: <031220041810.23043.872@att.net>

To the Gang: please if you will put a date on this receiver. Origally made
by National,
nameplate says modified by Schuttig and Co. SN 9--. Can be operated fixed freq
with plug in xtal. Commercial railroad or airline? Any known details
appreciated. Russ.

Message-Id: <5.2.1.1.0.20040312131828.00a6a810@mail.sssnet.com>
Date: Fri, 12 Mar 2004 13:20:05 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: w8au@sssnet.com

Subject: Re: National NC-100 variant RCP
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 01:10 PM 03/12/2004, wb3fau@att.net wrote:

>To the Gang: please if you will put a date on this
>receiver. Origally made by National,
>nameplate says modified by Schuttig and Co. SN 9--. Can be operated
>fixed freq with plug in xtal. Commercial railroad or airline? Any
>known details appreciated.

Russ:

This was used by CAA/FAA. It incorporated an early version of "squelch."

Perry w8au

Message-ID: <40520EA4.2000702@webex.net>
Date: Fri, 12 Mar 2004 14:25:24 -0500
From: Al Klase <skywaves@webex.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: National NC-100 variant RCP
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Hi Russ,

Moore's "Communications Receivers" says 1945.

"The RCP is a modified RCK or RCL receiver. Sets were
modified by Schuttin and Company, among others.
Modifications were made to the following circuits: avc,
hfo, cons, and first audio amplifier. FAA version of NC-100A."

Al

wb3fau@att.net wrote:

> To the Gang: please if you will put a date on this receiver. Origally
made by National,
> nameplate says modified by Schuttig and Co. SN 9--. Can be operated fixed
freq with plug in xtal. Commercial railroad or airline? Any known details
appreciated. Russ.

--

Al Klase - N3FRQ
skywaves@webex.net
Flemington, NJ 08822
Web Page: <http://www.webex.net/~skywaves/home.htm>

Message-Id: <6.0.0.22.0.20040312130952.01b6c788@pop.earthlink.net>
Date: Fri, 12 Mar 2004 13:14:33 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: "Benjamin D. Hall" <kd5byb@earthlink.net>
Subject: Re: National NC-100 variant RCP
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

What do you want to know? ;)

Probably started life as a National RCP or RCQ, (maybe RCK?) modified by
Shuttig to have a squelch type circuit named CONS I think - Carrier
Operated Noise Suppression? Think mine has "RCK" stamped on the IF cans.

Made for the Civian Aero Administration - mine has the CAA tag on it. I
think dates from the 40's - I'll have to check the contract date on
mine. The CAA was only around for a short time before it became FAA, if I
remember correctly - that may date it as well.

Somewhere, I have the documentation that details the CONS mods, a
schematic, etc... I replaced the caps in mine and it works well - a little
too well actually - had to detune some of the IF's during alignment because
it had too much gain and would oscillate.

Mine looks ugly too - missing lots of paint, rusty, sat in water for some
time, etc... But it is one of my favorites! That vernier dial tuning is
just sooo smooth...

later,
ben

At 12:10 PM 3/12/2004, wb3fau@att.net wrote:
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>receiver. Origally made by National,
>nameplate says modified by Schuttig and Co. SN 9--. Can be operated
>fixed freq with plug in xtal. Commercial railroad or airline? Any
>known details appreciated. Russ.

From the computer of Benjamin D. Hall, kd5byb@earthlink.net.
Northern Alabama, USA.

End of BOATANCHORS Digest 3622
